



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS: PINDER ET AL. GRP. ART UNIT: UNKNOWN  
APPL. NO.: 10/719,161 EXAMINER: UNKNOWN  
FILED: NOVEMBER 21, 2003 DOCKET NO.: A-9495  
TITLE: A PARTIAL DUAL-ENCRYPTED STREAM UTILIZING PROGRAM MAP  
TABLES

DECEMBER 12, 2003

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Transmitted herewith for filing in the above-identified patent application, please find:

1. X 3 Page Information Disclosure Statement
2. X 8 Page Form PTO-1449
3. X Copy of Cited Art
4. X Return Postcard

In the event a fee is required, the Commissioner is hereby authorized to charge payment of any fees required in connection with this Information Disclosure Statement to our Deposit Account No. 19-0761. A duplicate copy of this letter is transmitted herewith.

Respectfully submitted:

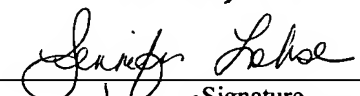
SEND CORRESPONDENCE TO:

Scientific-Atlanta, Inc.  
Intellectual Property Dept. MS 4.3.510  
5030 Sugarloaf Parkway  
Lawrenceville, GA 30044

By:

  
SHELLEY L. COUTURIER  
Agent of Record  
Reg. No.: 47,503  
Phone: (770) 236-2352  
Fax No.: (770) 236-4806

**Certificate of Hand Delivery**  
I, Jennifer Lohse, hereby certify that this correspondence is being  
hand delivered to the U.S. Patent and Trademark Office on Dec. 12, 2003, 2003.

  
Signature  
Jennifer Lohse  
Printed Name



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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This information disclosure statement is filed in accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, and specifically:

- ☒ under 37 CFR 1.97(b), or  
(within Three months of filing national application; or date of entry of international application; or before mailing date of first office action on the merits; whichever occurs last)
- ☒ under 37 CFR 1.97(c) together with either a:  
☐ Statement Under 37 C.F.R. 1.97(e), or  
☒ a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97(b) time period, but before the final office action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97(d) together with a:  
☐ Statement under 37 CFR 1.97(e), and  
☐ a \$180.00 petition fee set forth in 37 CFR 1.17(i)(1).  
(Filed after final office action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge \$0.00 to deposit account 19-0761. At any time during the pendency of this application, please charge any fees required to Deposit Account 19-0761 pursuant to 37 CFR 1.25. The Commissioner is hereby requested to credit any overpayment to Deposit Account No. 19-0761.

- ☒ Applicant(s) submit herewith *Form PTO 1449 - Information Disclosure Citation* together with copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may or may not be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56. As required by 37 C.F.R. §1.98(a), a legible copy of each document is provided.

a.

The Cited Art includes:

- |              |              |              |               |
|--------------|--------------|--------------|---------------|
| 1. 4,155,042 | 4. 4,405,829 | 7. 4,613,901 | 10. 4,658,093 |
| 2. 4,358,672 | 5. 4,531,020 | 8. 4,634,807 | 11. 4,712,238 |
| 3. 4,388,643 | 6. 4,600,921 | 9. 4,649,533 | 12. 4,712,239 |

Docket No.: A-9495

13. 4,736,422	38. 5,282,248	63. 5,509,073	88. 6,005,938
14. 4,823,385	39. 5,282,249	64. 5,519,780	89. 6,009,116
15. 4,864,615	40. 5,285,497	65. 5,524,052	90. 6,105,134
16. 4,866,770	41. 5,301,233	66. 5,550,984	91. 6,108,365
17. 4,885,777	42. 5,341,425	67. 5,557,678	92. 6,246,767
18. 4,887,296	43. 5,343,527	68. 5,557,765	93. 2002/0188567
19. 4,912,762	44. 5,381,477	69. 5,559,889	94. 2002/0194613
20. 4,982,430	45. 5,381,481	70. 5,563,950	95. 2002/0196939
21. 4,993,068	46. 5,400,401	71. 5,565,909	96. 2003/0016949
22. 5,003,591	47. 5,402,490	72. 5,568,552	97. 2003/0021412
23. 5,018,196	48. 5,414,773	73. 5,568,554	98. 2003/0026423
24. 5,029,207	49. 5,418,782	74. 5,583,939	99. 2003/0046686
25. 5,036,537	50. 5,420,866	75. 5,588,058	100.2003/0081776
26. 5,073,935	51. 5,425,101	76. 5,590,202	101.RE 33,189
27. 5,124,117	52. 5,432,542	77. 5,621,793	102.RE 33,808
28. 5,142,578	53. 5,440,633	78. 5,671,276	103.EP 0 723 371 A
29. 5,151,782	54. 5,465,299	79. 5,675,649	104.EP 0 752 786 A
30. 5,155,591	55. 5,473,692	80. 5,740,246	105.WO 94/13107 A
31. 5,175,765	56. 5,481,542	81. 5,742,677	106.WO 95/29560 A
32. 5,231,665	57. 5,481,613	82. 5,764,770	
33. 5,235,643	58. 5,488,410	83. 5,787,172	
34. 5,237,610	59. 5,497,422	84. 5,857,020	
35. 5,243,652	60. 5,499,294	85. 5,862,220	
36. 5,249,230	61. 5,499,295	86. 5,870,474	
37. 5,270,822	62. 5,506,904	87. 5,920,626	

#### OTHER PRIOR ART

ISO/IEC 13818-1, "Information Technology – Generic Coding of Moving Pictures and Associated Audio Systems," Draft of: November 13, 1994.

ISO/IEC JTC1/SC29/WG11, "Universal Multi-Program Multiplex and Transport for MPEG-2 Systems," January 1993.

ISO/IEC JTC1/SC29/WG11, "An MGE2-2 Multi-Program Multiplex Syntax," January 1993.

ISO/IEC JTC1/SC2/WG11, "Requirements and Method for High-Level Multiplexing of MPEG and Other Digital Service Bitstreams with Universal Transport Layer," November 1992.

Whitfield, Diffie, "Authentication and Authenticated Key Exchanges," DESIGNS, CODES AND CRYPTOGRAPHY, An International Journal, Vol. 2, No. 2, June 1992, pages 107-125.

Schneier, Bruce, "Applied Cryptography Second Edition: Protocols, Algorithms and Source Code in C," pages 357-363.

Menezes, Alfred J., "Handbook of Applied Cryptography," pages 506-525.

TM-1244 Rev. 4, "Final Technical Report of the Conditional Access Specialist Group," November 17, 1994.

Coutrot et al., "A Single Conditional Access System for Satellite-Cable and Terrestrial TV," IEEE Transactions on Consumer Electronics, Vol. 35, No. 3, August 1989, pages 464-468.

Louis Claude Guillou and Jean-Luc Giachetti, "Encipherment and Conditional Access," SMPTE Journal, 103 (1994) June, No. 6, White Plains, NY.

Scientific-Atlanta, Inc. Pending Application Serial #10/602,987, Atty. Docket No. A-8919, Filing Date: June 25, 2003, Title: "Method for Partially Encrypting Program Data," Inventors: Anthony J. Wasilewski and Howard G. Pinder.

Scientific-Atlanta, Inc. Pending Application Serial #10/602,986, Atty. Docket No. A-9233, Filing Date: June 25, 2003, Title: "Method for Partially Encrypting Program Data," Inventors: Anthony J. Wasilewski and Howard G. Pinder.

Scientific-Atlanta, Inc. Pending Application Serial #10/602,988, Atty. Docket No. A-9286, Filing Date: June 25, 2003, Title: "Method for Partially Encrypting Program Data," Inventors: Anthony J. Wasilewski and Howard G. Pinder.

- ☐ A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on the form PTO 1449 and is enclosed herewith.

The following rights are reserved by the Applicant(s): the right to establish the patentability of the claimed invention over any of the listed documents should they be applied as reference, and/or the right to prove that some of these documents may not be prior art, and/or the right to prove that some of these documents may not be enabling for the teachings they purport to offer.

This statement should not be construed as a representation that an exhaustive search has been made, or that information more material to the examination of the present application does not exist. The Examiner is specifically requested not to rely solely on the materials submitted herewith. The Examiner is requested to conduct an independent and thorough review of the documents, and to form independent opinions as to their significance.

It is requested that the information disclosed herein be made of record in this application and that the Examiner initial and return a copy of the enclosed PTO-1449 to indicate the documents have been considered.

Respectfully Submitted,

**SEND CORRESPONDENCE TO:**

Scientific-Atlanta, Inc.  
Intellectual Property Dept. MS 4.3.510  
5030 Sugarloaf Parkway  
Lawrenceville, GA 30044

By:



SHELLEY L. COUTURIER

Agent of Record

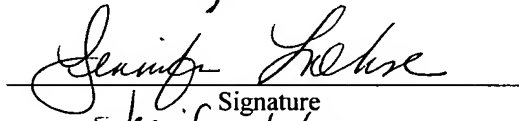
Reg. No.: 47,503

Phone: (770) 236-2352

Fax No.: (770) 236-4806

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Signature  
Jennifer Lohse  
Printed Name

**LIST OF ART CITED BY APPLICANT**

(Use several sheets if necessary)

Attorney Docket No.

A-9495

Serial No.

10/719,161

Filing Date

NOVEMBER 21, 2003

Applicant:

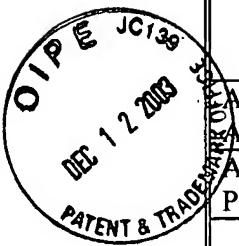
PINDER ET AL.

Group

UNKNOWN

**U.S. PATENT DOCUMENTS**

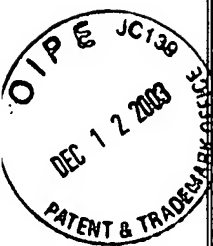
Exami ner's Initial		Document No.	Date	Name	Class	Subclass	
	AA	4,155,042	5/15/79	Permut et al.			
	AB	4,358,672	11/9/82	Hyatt et al.			
	AC	4,388,643	6/14/83	Aminetzah			
	AD	4,405,829	9/20/83	Rivest et al.			
	AE	4,531,020	6/23/95	Weschelberger et al.			
	AF	4,600,921	7/15/86	Thomas et al.			
	AG	4,613,901	9/23/86	Gilhousen et al.			
	AH	4,634,807	1/6/87	Chorley et al.			
	AI	4,649,533	3/10/97	Chorley et al.			
	AJ	4,658,093	4/14/87	Hellman			
	AK	4,712,238	12/8/87	Gilhousen et al.			
	AL	4,712,239	12/8/87	Frezza			
	AM	4,736,422	4/5/88	Mason			
	AN	4,823,385	4/18/89	Hegendörfer			
	AO	4,864,615	9/5/89	Bennett et al.			
	AP	4,866,770	9/12/89	Seth-Smith et al.			
	AQ	4,885,777	12/5/89	Takaragi et al.			
	AR	4,887,296	12/12/89	Horne			



Form PTO-1449		U.S. Dept. of Commerce, Patent and Trademarks <b>LIST OF ART CITED BY APPLICANT</b> (Use several sheets if necessary)				
Attorney Docket No. A-9495		Serial No. 10/719,161			Filing Date NOVEMBER 21, 2003	
Applicant: PINDER ET AL.				Group UNKNOWN		
<b>U.S. PATENT DOCUMENTS</b>						
Exami ner's Initial		Document No.	Date	Name	Class	Subclass
	AS	4,912,762	3/27/90	Lee et al.		
	AT	4,982,430	1/1/91	Frezza et al.		
	AU	4,993,068	2/12/91	Piosenka et al		
	AV	5,003,591	3/26/91	Kauffman		
	AW	5,018,196	5/21/91	Takaragi et al.		
	AX	5,029,207	7/2/91	Gammie		
	AY	5,036,537	7/30/91	Jeffers et al.		
	AZ	5,073,935	12/17/91	Pastor		
	BA	5,124,117	6/23/92	Tatebayashi et al.		
	BB	5,142,578	8/25/92	Matyas et al.		
	BC	5,151,782	9/29/92	Ferraro		
	BD	5,155,591	10/13/92	Wachob		
	BE	5,175,765	12/29/92	Perlman		
	BF	5,231,665	7/27/93	Auld et al.		
	BG	5,235,643	8/10/93	Anderson et al.		
	BH	5,237,610	8/17/93	Gammie et al.		
	BI	5,243,652	9/7/93	Teare et al.		
	BJ	5,249,230	9/28/93	Mihm, Jr.		



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Applicant: PINDER ET AL.			Group UNKNOWN			
<b>U.S. PATENT DOCUMENTS</b>						
Exami ner's Initial		Document No.	Date	Name	Class	Subclass
	BK	5,270,822	12/14/93	Choi		
	BL	5,282,248	1/25/91	DeJoy		
	BM	5,282,249	1/25/94	Cohen et al.		
	BN	5,285,497	2/8/94	Thatcher, Jr.		
	BO	5,301,233	4/5/94	Coutrot et al.		
	BP	5,341,425	8/23/94	Wasilewski et al.		
	BQ	5,343,527	8/30/94	Moore		
	BR	5,381,477	1/10/95	Beyers III et al.		
	BS	5,381,481	1/10/95	Gammie et al.		
	BT	5,400,401	3/21/95	Wasilewski et al.		
	BU	5,402,490	3/28/95	Mihm, Jr.		
	BV	5,414,773	5/9/95	Handelman		
	BW	5,418,782	5/23/95	Wasilewski		
	BX	5,420,866	5/30/95	Wasilewski		
	BY	5,425,101	6/13/95	Woo et al.		
	BZ	5,432,542	7/11/95	Thibadeau et al.		
	CA	5,440,633	8/8/95	Augustine et al.		
	CB	5,465,299	11/7/95	Matsumoto et al.		
	CC	5,473,692	12/5/95	Davis		



Form PTO-1449

U.S. Dept. of Commerce, Patent and Trademarks

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Applicant:

PINDER ET AL.

Group

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**U.S. PATENT DOCUMENTS**

Exami ner's Initial		Document No.	Date	Name	Class	Subclass
	CD	5,481,542	1/2/96	Logston et al.		
	CE	5,481,613	1/2/96	Ford et al.		
	CF	5,488,410	1/30/96	Lieberfarb et al.		
	CG	5,497,422	3/5/96	Tysen et al.		
	CH	5,499,294	3/12/96	Friedman		
	CI	5,499,295	3/12/96	Cooper		
	CJ	5,506,904	4/9/96	Sheldrick et al.		
	CK	5,509,073	4/16/96	Monnin et al.		
	CL	5,519,780	5/21/96	Woo et al.		
	CM	5,524,052	6/4/96	Augustine et al.		
	CN	5,550,984	8/27/96	Gelb		
	CO	5,557,678	9/17/96	Ganesan		
	CP	5,557,765	9/17/96	Lipner et al.		
	CQ	5,588,058	12/24/96	Le Berre		
	CR	5,559,889	9/24/96	Easter et al.		
	CS	5,563,950	10/8/96	Easter et al.		
	CT	5,565,909	10/15/96	Thibadeau et al.		
	CU	5,568,552	10/22/96	Davis		





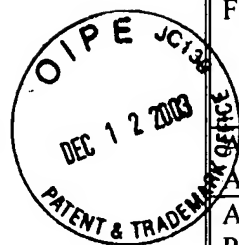
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<b>LIST OF ART CITED BY APPLICANT</b>						
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Attorney Docket No. A-9495		Serial No. 10/719,161			Filing Date NOVEMBER 21, 2003	
Applicant: PINDER ET AL.			Group UNKNOWN			
<b>U.S. PATENT DOCUMENTS</b>						
Exami ner's Initial		Document No.	Date	Name	Class	Subclass
	CV	5,568,554	10/22/96	Eastlake 3rd		
	CW	5,583,939	12/10/96	Chang et al.		
	CX	5,590,202	12/31/96	Bestler et al.		
	CY	5,621,793	4/15/97	Bednarek et al.		
	CZ	5,671,276	9/23/97	Eyer et al.		
	DA	5,675,649	10/7/97	Brennan et al.		
	DB	5,740,246	4/14/98	Saito		
	DC	5,742,677	4/21/98	Pinder et al.		
	DD	5,764,770	6/9/98	Schipper et al.		
	DE	5,787,172	7/28/98	Arnold		
	DF	5,857,020	1/5/99	Peterson, Jr.		
	DG	5,862,220	1/19/99	Perlman		
	DH	5,870,474	2/9/99	Wasilewski et al.		
	DI	5,920,626	7/6/99	Durden et al.		
	DJ	6,005,938	12/21/99	Banker et al.		
	DK	6,009,116	12/28/99	Bednarek et al.		
	DL	6,105,134	8/15/00	Pinder et al.		



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Applicant: PINDER ET AL.			Group UNKNOWN			
<b>U.S. PATENT DOCUMENTS</b>						
Exami ner's Initial		Document No.	Date	Name	Class	Subclass
	DM	6,108,365	8/22/00	Rubin et al.		
	DN	6,246,767	6/12/01	Akins, III et al.		
	DO	2002/0188567	12/12/02	Candelore		
	DP	2002/0194613	12/19/02	Unger		
	DQ	2002/0196939	12/26/02	Unger et al.		
	DR	2003/0016949	1/23/03	Unger		
	DS	2003/0021412	1/30/03	Candelore et al.		
	DT	2003/0026423	2/6/03	Unger et al.		
	DU	2003/0046686	3/6/03	Candelore et al.		
	DV	2003/0081776	5/1/03	Candelore		
	DW	RE33,189	3/27/90	Lee et al.		
	DX	RE33,808	1/28/92	Wright, Jr.		



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Exami ner's Initial		Document No.	Date	Name	Class	Subclass	
<b>FOREIGN PATENT DOCUMENTS</b>							
		Document No.	Date	Country	Class	Subclass	Translation
	DY	EP 0 723 371 A	7/24/96	Europe			
	DZ	EP 0 752 786 A	1/8/97	Europe			
	EA	WO 94/13107 A	6/9/94	PCT International			
	EB	WO 95/29560 A	11/2/95	PCT International			
<b>OTHER PRIOR ART (Including Author Title, Date, Pertinent Pages, Etc.)</b>							
Exami ner's Initial		Document No.	Date	Name	Class	Subclass	
	EC	ISO/IEC 13818-1, "Information Technology – Generic Coding of Moving Pictures and Associated Audio Systems," Draft of: November 13, 1994.					
	ED	ISO/IEC JTC1/SC29/WG11, "Universal Multi-Program Multiplex and Transport for MPEG-2 Systems," January 1993.					
	EE	ISO/IEC JTC1/SC29/WG11, "An MEG-2 Multi-Program Multiplex Syntax," January 1993.					
	EF	ISO/IEC JTC1/SC2/WG11, "Requirements and Method for High-Level Multiplexing of MPEG and Other Digital Service Bitstreams with Universal Transport Layer," November 1992.					



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<b>OTHER PRIOR ART (Including Author Title, Date, Pertinent Pages, Etc.)</b>						
Exami ner's Initial		Document No.	Date	Name	Class	Subclass
	EG	Whitfield, Diffie, "Authentication and Authenticated Key Exchanges," DESIGNS, CODES AND CRYPTOGRAPHY, An International Journal, Vol. 2, No. 2, June 1992, pages 107-125.				
	EH	Schneier, Bruce, "Applied Cryptography Second Edition: Protocols, Algorithms and Source Code in C," pages 357-363.				
	EI	Menezes, Alfred J., "Handbook of Applied Cryptography," pages 506-525.				
	EJ	TM-1244 Rev. 4, "Final Technical Report of the Conditional Access Specialist Group," November 17, 1994.				
	EK	Coutrot et al., "A Single Conditional Access System for Satellite-Cable and Terrestrial TV," IEEE Transactions on Consumer Electronics, Vol. 35, No. 3, August 1989, pages 464-468.				
	EL	Louis Claude Guillou and Jean-Luc Giachetti, "Encipherment and Conditional Access," SMPTE Journal, 103 (1994) June, No. 6, White Plains, NY.				
	EM	Scientific-Atlanta, Inc. Pending Application Serial #10/602,987, Atty. Docket No. A-8919, Filing Date: June 25, 2003, Title: "Method for Partially Encrypting Program Data," Inventors: Anthony J. Wasilewski and Howard G. Pinder.				
	EN	Scientific-Atlanta, Inc. Pending Application Serial #10/602,986, Atty. Docket No. A-9233, Filing Date: June 25, 2003, Title: "Method for Partially Encrypting Program Data," Inventors: Anthony J. Wasilewski and Howard G. Pinder.				
	EO	Scientific-Atlanta, Inc. Pending Application Serial #10/602,988, Atty. Docket No. A-9286, Filing Date: June 25, 2003, Title: "Method for Partially Encrypting Program Data," Inventors: Anthony J. Wasilewski and Howard G. Pinder.				
	EP					
	EQ					
	ER					
	ES					
<b>EXAMINER</b>				<b>DATE CONSIDERED:</b>		
<b>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance. Include copy of this form with next communication to Applicant.</b>						